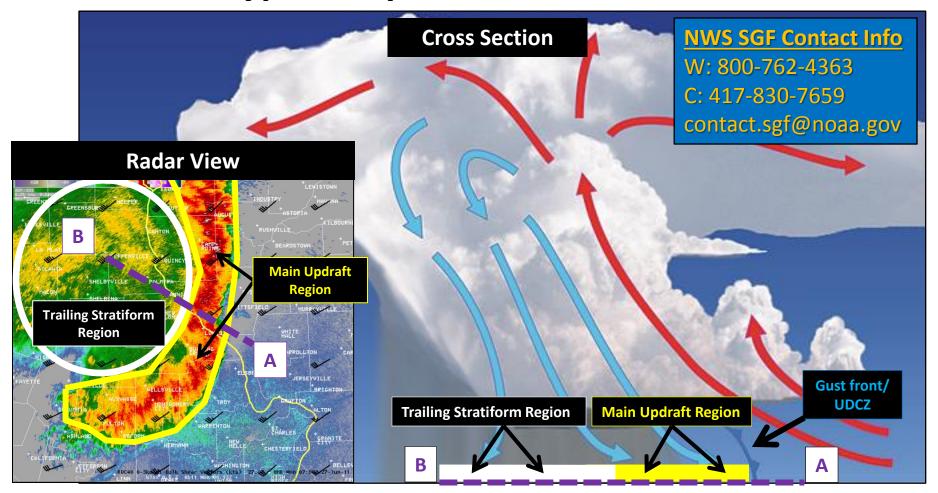
# **Typical Squall Line Structure**



### **Trailing Stratiform Region**

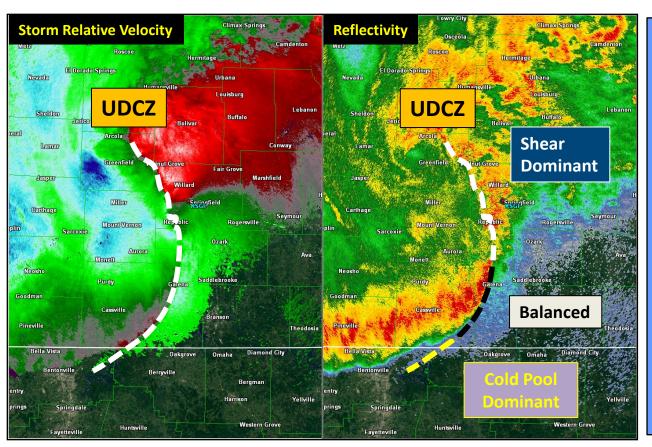
- 1. Light to moderate precipitation
- 2. Little chance for severe weather
- 3. Still contains lightning

### **Main Updraft Region**

- 1. Heaviest precipitation
- 2. Greatest chance for severe weather
- 3. Contains most lightning

## **Determining Potential Squall Line Threats**

- 1. Locate the Updraft Downdraft Convergence Zone (UDCZ) using radar velocity products
- 2. Compare location of UDCZ to updraft region in radar reflectivity product:
  - Shear Dominant UDCZ within or behind updraft region
  - Balanced UDCZ on immediate front edge of updraft region
  - Cold Pool Dominant UDCZ out ahead of updraft region



### **Shear Dominant**

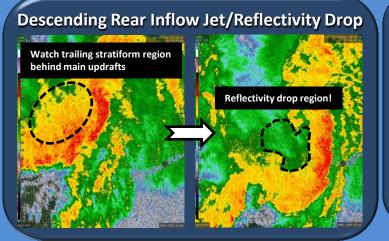
- Damaging straight-line winds
- Tornadoes

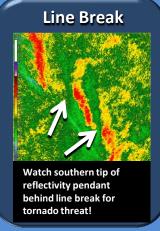
### Balanced

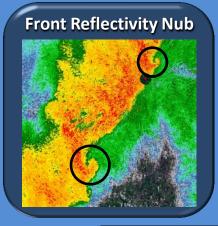
- Damaging straight-line winds
- Tornadoes
- Hail

### **Cold Pool Dominant**

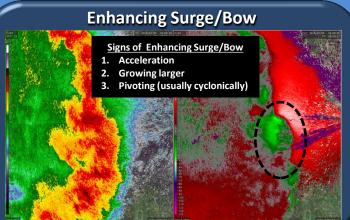
- Damaging straight-line winds
- Flash Flooding (training)



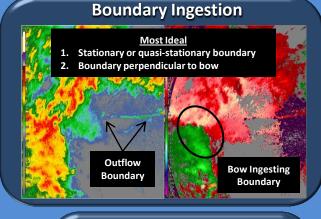


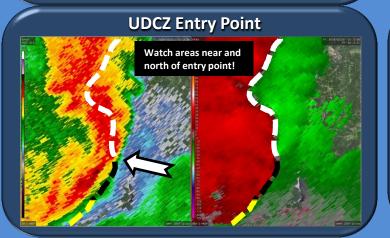


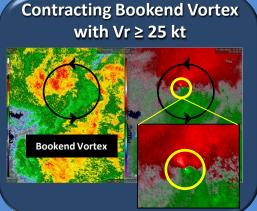


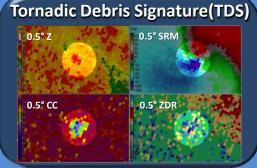






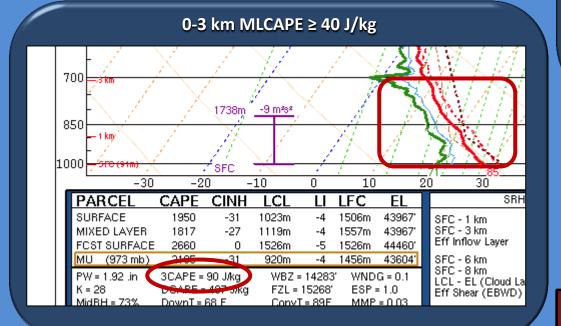




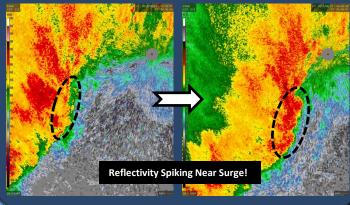


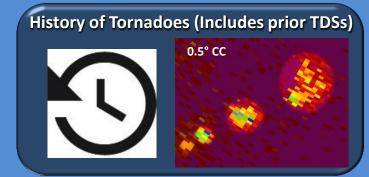
Tornado Warning Confidence Builders

# 



# Cell Merger/Reflectivity Spiking Near Surge





**Tornado Warning Nudgers**